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(FILE 'HOME' ENTERED AT 13:58:35 ON 20 SEP 2001)

FILE 'CAPLUS, EMBASE, MEDLINE, USPATFULL, PCTFULL, EUROPATFULL' ENTERED
AT 13:59:59 ON 20 SEP 2001

L1 577 SEA ABB=ON PLU=ON (TNF OR TUMOR NECRO? FACTOR OR TUMOUR
NECRO? FACTOR) AND (HEARING OR COCHLEAR ADJ CELLS OR AUDITORY)

L2 430 SEA ABB=ON PLU=ON (TNF OR TUMOR NECRO? FACTOR OR TUMOUR
NECRO? FACTOR) AND (HEARING (3A) LOSS OR COCHLEAR (3A)
DEGENRAT? OR AUDITORY)

L3 340 SEA ABB=ON PLU=ON (TNF OR TUMOR NECRO? FACTOR OR TUMOUR
NECRO? FACTOR) (P) (HEARING (3A) LOSS OR COCHLEAR (3A)
DEGENRAT? OR AUDITORY)

L4 404 SEA ABB=ON PLU=ON (TNF OR TUMOR NECRO? FACTOR OR TUMOUR
NECRO? FACTOR) (L) (HEARING (3A) LOSS OR COCHLEAR (3A)
DEGENRAT? OR AUDITORY)

L5 406 SEA ABB=ON PLU=ON (TNF OR TUMOR NECRO? FACTOR OR TUMOUR
NECRO? FACTOR) (L) ((HEARING (3A) LOSS) OR (COCHLEAR (3A)
DEGENERAT?) OR AUDITORY)

L6 3 SEA ABB=ON PLU=ON (TNF OR TUMOR NECRO? FACTOR OR TUMOUR
NECRO? FACTOR) (5A) ((HEARING (3A) LOSS) OR (COCHLEAR (3A)
DEGENERAT?) OR AUDITORY)

L7 3 DUP REM L6 (0 DUPLICATES REMOVED)
D L7 IBIB KWIC
D L7 IBIB KWIC 2-

L8 393 DUP REM L5 (13 DUPLICATES REMOVED)

L9 142 SEA ABB=ON PLU=ON (TNF OR TUMOR NECRO? FACTOR OR TUMOUR
NECRO? FACTOR) (5A) (INHIBIT? OR MODIF? OR ANTAGONIST OR
ANTIBOD?) (P) (HEARING LOSS OR COCHLEAR DEGENERAT?)

L10 142 SEA ABB=ON PLU=ON (TNF OR TUMOR NECRO? FACTOR OR TUMOUR
NECRO? FACTOR) (5A) (INHIBIT? OR MODIF? OR ANTAGONIST OR
ANTIBOD?) (P) (HEARING (3A) LOSS OR COCHLEAR (3A) DEGENERAT?)
D L10 1-5 IBIB KWIC
D L10 130-142 IBIB KWIC

L12 127 SEA ABB=ON PLU=ON L10 (P) (INTERLEUKIN-1 OR IL-1)
D L12 120-127 IBIB KWIC

1Q ANSWER 139 OF 142 PCTFULL COPYRIGHT 2001 MicroPatent
 ACCESSION NUMBER: 1997042966 PCTFULL
 TITLE (ENGLISH): THERAPEUTIC USES OF BPI PROTEIN PRODUCTS FOR HUMAN
 MENINGOCOCCEMIA
 TITLE (FRENCH): APPLICATIONS THERAPEUTIQUES DE PRODUITS PROTEIQUES
 BACTERICIDES/AUGMENTANT LA PERMEABILITE (BPI) DANS LE
 CAS DE
 MENINGOCOCCEMIES CHEZ L'HOMME
 INVENTOR(S): GIROIR, Brett, P.; SCANNON, Patrick, J.
 PATENT ASSIGNEE(S): XOMA CORPORATION
 LANGUAGE OF PUBL.: English
 LANGUAGE OF FILING: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

	NUMBER	KIND	DATE
	WO 9742966	A1	19971120
DESIGNATED STATES:	AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN GH KE LS MW SD SZ UG AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG		
APPLICATION INFO.:	WO 1997-US8016		19970509
PRIORITY (ORIGINAL):	US 1996-08/644287		19960510

DETD . . . culture or immunologic assays.
 Systemic
 hemodynamric signs, severe coagulopathy and intravascular thrombosis are
 notably
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 including
 sensineural **hearing loss**, is uncommon. The approach
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 meningitis.

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 et al., Blood 85:3437-
 3443 (1995);
 de Winter et at., J. Inflam. 45:193-206 (1995)]. Thornton et al., FASEB
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 8(4):AI37, 1994, report that BPI **inhibited** the release of
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L12 ANSWER 125 OF 127 PCTFULL COPYRIGHT 2001 MicroPatent
 ACCESSION NUMBER: 1993006865 PCTFULL
 TITLE (ENGLISH): TREATMENT OF OCULAR INFLAMMATION BY BLOCKAGE OF CELL
 ADHESION
 MOLECULES
 TITLE (FRENCH): TRAITEMENT DE L'INFLAMMATION OCULAIRE PAR BLOCAGE DES
 MOLECULES
 D'ADHESION CELLULAIRE
 INVENTOR(S): WHITCUP, Scott, M.; CHAN, Chi-Chao; NUSSENBLATT,
 Robert, B.
 PATENT ASSIGNEE(S): THE UNITED STATES OF AMERICA, represented by THE
 SECRETARY, DEPARTMENT
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
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	WO 9306865	A1	19930415
DESIGNATED STATES:	AU CA JP AT BE CH DE DK ES FR GB GR IE IT LU MC NL SE		
APPLICATION INFO.:	WO 1992-US8556		19921002
PRIORITY (ORIGINAL):	US 1991-770026		19911004
	US 1992-822042		19920117

DETD Case 2 A 72-year-old black woman with a 30-year
 history of bilateral recurrent panuveitis with
 exudative retinal detachments, apapilledema, **hearing**
loss, and vitiligo was diagnosed with Vogt-Koyanagi-
 Harada syndrome (Chan, C-C. et al., Am. J.

. . .
 six uveitic eyes
 showed mild staining for TNF-B (cases 1, 2, 3 and 6), and
 two uveitic eyes showed no staining with **antibody** against
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 either TNF-a and TNF-B.

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 cause
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L12 ANSWER 122 OF 127 PCTFULL COPYRIGHT 2001 MicroPatent
 ACCESSION NUMBER: 1999053927 PCTFULL
 TITLE (ENGLISH): METHODS FOR TREATING AND PREVENTING INSULIN RESISTANCE
 AND
 RELATED DISORDERS
 TITLE (FRENCH): PROCEDES POUR TRAITER ET PREVENIR LA RESISTANCE A
 L'INSULINE ET
 LES TROUBLES QUI Y SONT LIES
 INVENTOR(S): GREENBERG, Andrew, S.
 PATENT ASSIGNEE(S): TRUSTEES OF TUFTS COLLEGE
 LANGUAGE OF PUBL.: English
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 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

	NUMBER	KIND	DATE
	WO 9953927	A1	19991028
DESIGNATED STATES:	JP US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL		
	PT SE		
APPLICATION INFO.:	WO 1999-US8364		19990416
PRIORITY (ORIGINAL):	US 1998-60/082152		19980417
	US 1998-		19980423

DETD . . . years while attacking the blood
 vessels and nerves,
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 to physicians are
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. . .
 activity of JNK and also, but to a
 lesser extent, the activity
 of ERK1" kinase. Furthermore, a prostaglandin derivative was also shown
 to **inhibit TNF-**
 u induced lipolysis and to **inhibit** ERK1/2 and YNK-1 activation.
 Furthermore, as shown
 herein, an inhibitor of a ERK/MA-P kinase decreases TNF-a induced
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 contrary to JNK and. . .) 8 pathway
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 inhibition of the JNK
 pathway and the ERK/MAP kinase pathway **inhibit TNF-**(y
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inhibition of the p3) 8 pathway increases TNF-a induced
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3. Compounds which **inhibit TNF-**a induced lipolysis
 The invention provides methods for inhibitino, or blocking lipolysis of
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 In
 a preferred embodiment, lipolysis is TNF-a induced lipolysis. In. . .

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 kinases
 (SAPKs), are
 members of the mitogen-activated protein (MAP) kinase group which are
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 Pat. No. 5605808; B.

these assays are also commercially available, such as. . .

showed in Figure 1. These indicate that lipolysis in the adipocytes induced by 2 ng/ml (Panel A) or 20 ng/ml (Panel B) **TNF- α** is significantly **inhibited** by the addition of 2 or 20 mM NaSal. In fact, NaSal inhibited glycerol production by 3T3 LI adipocytes induced by. . .

Example 2: NaSal **inhibits** **TNF- α** induced JNK-1 activation in adipocytes
This example shows that NaSal inhibits JNK-1 activation by **TNF- α** in adipocytes.

Thus, since NaSal **inhibits** **TNF- α** induced lipolysis and NaSal significantly reduces JNK-1 activation, JNK-1 activation is likely to play a significant role in blocking lipolysis induced by **TNF- α** .

Example 3. NaSal partially **inhibits** **TNF- α** induced NMP kinase activation
This example shows that, whereas JNK-1 activation by **TNF- α** is significantly **inhibited** by NaSal, activation of NALP kinases by **TNF- α** is not significantly inhibited by NaSal.

Example 4- NMP kinase **inhibitor** PD98059 decreases **TNF- α** induced lipolysis
This example demonstrates that inhibition of ERK1/2 by PD98059 decreases **TNF- α** induced lipolysis.

Example 5: **Inhibition** of p38 kinase stimulates **TNF- α** induced lipolysis
This example shows; that, contrarily to JNK and ERK 1/2 signal pathways, inhibition of the p38 signal pathway stimulates **TNF- α** induced. . .

ERK 1/2 kinase activity, BRL does not significantly affect the activity of JNK-1 and ERK 1/2 kinases. Thus, BRL does not **inhibit** **TNF- α** induced lipolysis by decreasing the activity of JNK-1 and ERK.

Example 7: PGJ2 **inhibits** **TNF- α** induced activation of JNK-1 and ERK1/2
This example shows that **TNF- α** induced activation of JNK-1 and ERK1/2 can be inhibited by PGJ2.

Figure 8. Total protein I s shown in Figure 7 panel B. Furthermore, Figure 7 panels C and D shows that PGJ2 significantly **inhibits** the **TNF- α** induced increase in ERK 1 /2 and that of JNK-1 kinase activity. Thus., PGJ2, which is an agonist of the PPAR- γ receptor may function in a similar manner to NaSal to **inhibit** **TNF- α** induced lipolysis, i.e., by modulating TVAP kinases, e.g., ERK1/2 and JNK-1.

Example 8: **Inhibition** of JNK-1 decreases **TNF-u**,
induced lipolysis

This example demonstrates an experiment that a person of skill in the
art can effectuate
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adenoviral vectors. Furthermore, as shown in Figure I OA,
incubation of the cells

with all adenoviral vector expressing perilipin A or B, essentially

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Other preferred compounds of the invention include compounds which inhibit TNF- α .

Such compounds include those which inhibit the production of TNF- α , as well as those which specifically inhibit its activity, e.g., by interfering with its interaction with a receptor. For example, an inhibitor can be an antibody binding specifically to, and inhibiting the activity of TNF- α . Yet other **inhibitory** compounds include inhibitors of a TNF- α receptor or of a molecule interacting therewith, such as the NLADD protein (Schievella et al. (1997) J Biol Chem. 272:12069). Thus, within the scope of the invention are antisense and triplex molecules; which specifically **inhibit** the expression of TNF- α , a TNF-u receptor, or molecule interactina with TNF-u, or' uch as MADD.

thereof As described in the Examples, NaSal has in fact been shown herein to inhibit JNK activation by TNF-u. in adipocytes and to **inhibit TNF-cz** induced lipolysis in adlpoc tes. NaSal has also been described as being capable of **inhibiting TNF**-Induced activation of JNK and p42/p44 MAP kinases in FS4 fibroblasts (Schwenger et al. (1997) P.N.A.S. tWA 94:2869) and Schwenger et al. (1996). . .

discovery that the TNK and the EPK/MAP kinase pathways are involved in TNF- α induced lipolysis, and that inhibition of these kinase pathways decreases or **inhibits** TNF- α induced lipolysis. It has also been shown that PPAR- γ agonists inhibit TNF- α induced lipolysis. Thus, the invention pertains to any disease or disorder which . . .

In a particular embodiment, insulin resistance or other disease or condition associated with an abnormal FFA level is reduced, eliminated or **inhibited**, by blocking **TNF**- α action, e.g., by neutralizing TNF- α in the serum (i.e., circulating TNF- α) or in the adipose tissue.

methods of the invention comprise determining the activity of a PPAR- γ receptor, In fact, since binding of a ligand to a PPAR- γ receptor **inhibits** **TNF**- α induced lipolysis, a defective PPAR- γ may result in increased TNF- α induced lipolysis.

of detection is by performing ELISA assays. An ELISA assay for the detection of human T.NF-rt, as well as the production of **antibodies** against human **TNF-U.**, is described, e.g., in U.S. Patent No. 5,716,972 by Adams et al. Antibodies for performing

these assays are also commercially available, such as. . .

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Term	Documents
MENINGITIS.DWPI,EPAB,JPAB,USPT,PGPB.	2980
MENINGITI.DWPI,EPAB,JPAB,USPT,PGPB.	5
HEARING.DWPI,EPAB,JPAB,USPT,PGPB.	21362
HEARINGS.DWPI,EPAB,JPAB,USPT,PGPB.	233
LOSS.DWPI,EPAB,JPAB,USPT,PGPB.	655519
LOSSES.DWPI,EPAB,JPAB,USPT,PGPB.	164374
(MENINGITIS SAME (HEARING ADJ LOSS)).USPT,PGPB,JPAB,EPAB,DWPI.	16

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Database: IBM Technical Disclosure Bulletins

meningitis same (hearing adj loss)

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Today's Date: 9/20/2001

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MENINGITIS.DWPI,EPAB,JPAB,USPT,PGPB.	2980
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LOSS.DWPI,EPAB,JPAB,USPT,PGPB.	655519
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Database: IBM Technical Disclosure Bulletins

meningitis same (hearing adj loss)

Refine Search:[Clear](#)**Search History****Today's Date: 9/20/2001**

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,JPAB,EPAB,DWPI	meningitis same (hearing adj loss)	16	<u>L6</u>
USPT,PGPB,JPAB,EPAB,DWPI	meningitis adj5 (hearing adj loss)	1	<u>L5</u>
USPT,PGPB,JPAB,EPAB,DWPI	meningitis adj5(hearing adj loss)	1	<u>L4</u>
USPT,PGPB,JPAB,EPAB,DWPI	(TNF or tumor adj necro\$3 adj factor or tumour adj necro\$4 adj factor) same (il-1 or interleukin-1) and (hearing adj loss or cochlear adj degenrat\$)	13	<u>L3</u>
USPT,PGPB,JPAB,EPAB,DWPI	(TNF or tumor adj necro\$3 adj factor or tumour adj necro\$4 adj factor) same meningitis and (hearing adj loss or cochlear adj degenrat\$)	4	<u>L2</u>
USPT,PGPB,JPAB,EPAB,DWPI	(TNF or tumor adj necro\$3 adj factor or tumour adj necro\$4 adj factor) same (hearing adj loss or cochlear adj degenrat\$)	4	<u>L1</u>

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USPT,PGPB,JPAB,EPAB,DWPI	meningitis adj5 (hearing adj loss)	1	<u>L5</u>
USPT,PGPB,JPAB,EPAB,DWPI	meningitis adj5(hearing adj loss)	1	<u>L4</u>
USPT,PGPB,JPAB,EPAB,DWPI	(TNF or tumor adj necro\$3 adj factor or tumour adj necro\$4 adj factor) same (il-1 or interleukin-1) and (hearing adj loss or cochlear adj degenrat\$)	13	<u>L3</u>
USPT,PGPB,JPAB,EPAB,DWPI	(TNF or tumor adj necro\$3 adj factor or tumour adj necro\$4 adj factor) same meningitis and (hearing adj loss or cochlear adj degenrat\$)	4	<u>L2</u>
USPT,PGPB,JPAB,EPAB,DWPI	(TNF or tumor adj necro\$3 adj factor or tumour adj necro\$4 adj factor) same (hearing adj loss or cochlear adj degenrat\$)	4	<u>L1</u>